Ulla G Nielsen

List of Publications by Year in descending order

71	2,437	257450	214800
papers	citations	24	47
		h-index	g-index

74	74	74	3282
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mg/Al Ordering in Layered Double Hydroxides Revealed by Multinuclear NMR Spectroscopy. Science, 2008, 321, 113-117.	12.6	591
2	Characterization of Phosphate Sequestration by a Lanthanum Modified Bentonite Clay: A Solid-State NMR, EXAFS, and PXRD Study. Environmental Science & Technology, 2015, 49, 4559-4566.	10.0	113
3	Influence of dissolved organic carbon on the efficiency of P sequestration by a lanthanum modified clay. Water Research, 2016, 97, 39-46.	11.3	85
4	How the Method of Synthesis Governs the Local and Global Structure of Zinc Aluminum Layered Double Hydroxides. Journal of Physical Chemistry C, 2015, 119, 27695-27707.	3.1	81
5	Dicobalt IIâ´'II, IIâ´'III, and IIIâ´'III Complexes as Spectroscopic Models for Dicobalt Enzyme Active Sites. Inorganic Chemistry, 2008, 47, 5079-5092.	4.0	79
6	Reduced graphene oxide for Liâ€"air batteries: The effect of oxidation time and reduction conditions for graphene oxide. Carbon, 2015, 85, 233-244.	10.3	78
7	Responses in sediment phosphorus and lanthanum concentrations and composition across 10 lakes following applications of lanthanum modified bentonite. Water Research, 2016, 97, 101-110.	11.3	70
8	Local Environments and Lithium Adsorption on the Iron Oxyhydroxides Lepidocrocite (γ-FeOOH) and Goethite (α-FeOOH):â€‰ A ^{2}H and ^{7}Li Solid-State MAS NMR Study. Journal of the American Chemical Society, 2008, 130, 1285-1295.	13.7	67
9	51V MAS NMR Investigation of51V Quadrupole Coupling and Chemical Shift Anisotropy in Divalent Metal Pyrovanadates. Journal of Physical Chemistry B, 2001, 105, 420-429.	2.6	66
10	Characterization of Divalent Metal Metavanadates by51V Magic-Angle Spinning NMR Spectroscopy of the Central and Satellite Transitions. Inorganic Chemistry, 2000, 39, 2135-2145.	4.0	57
11	An investigation of the phosphate removal mechanism by MgFe layered double hydroxides. Applied Clay Science, 2020, 189, 105521.	5.2	55
12	Layered double hydroxides for phosphorus recovery from acidified and non-acidified dewatered sludge. Water Research, 2019, 153, 208-216.	11.3	53
13	Phosphate capture by ultrathin MgAl layered double hydroxide nanoparticles. Applied Clay Science, 2019, 177, 82-90.	5.2	53
14	The Complete 51V MAS NMR Spectrum of Surface Vanadia Nanoparticles on Anatase (TiO2):â€‰ Vanadia Surface Structure of a DeNOx Catalyst. Journal of the American Chemical Society, 2004, 126, 4926-4933.	13.7	51
15	Investigating Sorption on Ironâ´'Oxyhydroxide Soil Minerals by Solid-State NMR Spectroscopy:Â A6Li MAS NMR Study of Adsorption and Absorption on Goethite. Journal of Physical Chemistry B, 2005, 109, 18310-18315.	2.6	44
16	Competitive reactions during synthesis of zinc aluminum layered double hydroxides by thermal hydrolysis of urea. Journal of Materials Chemistry A, 2017, 5, 21795-21806.	10.3	43
17	Aluminum Orthovanadate (AlVO4):Â Synthesis and Characterization by27Al and51V MAS and MQMAS NMR Spectroscopy. Inorganic Chemistry, 2002, 41, 6432-6439.	4.0	42
18	Determination and Quantification of the Local Environments in Stoichiometric and Defect Jarosite by Solid-State ^{2}H NMR Spectroscopy. Chemistry of Materials, 2008, 20, 2234-2241.	6.7	37

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19	Phosphorus speciation and fertiliser performance characteristics: A comparison of waste recovered struvites from global sources. Geoderma, 2020, 362, 114096.	5.1	34
20	Extraction and quantification of polyphosphates in activated sludge from waste water treatment plants by 31P NMR spectroscopy. Water Research, 2019, 157, 346-355.	11.3	32
21	New Training to Meet the Global Phosphorus Challenge. Environmental Science & Technology, 2019, 53, 8479-8481.	10.0	29
22	Dynamic Characterization of Inter- and Intralamellar Domains of Cobalt-Based Layered Double Hydroxides upon Electrochemical Oxidation. Chemistry of Materials, 2016, 28, 7793-7806.	6.7	28
23	Stability of magnetic LDH composites used for phosphate recovery. Journal of Colloid and Interface Science, 2020, 580, 660-668.	9.4	28
24	Characterization of defects and the local structure in natural and synthetic alunite (K, Na,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 547 Td 587-597.	1.9	25
25	Crystal structure of ÃŽÂ±-Mg2V2O7 from synchrotron X-ray powder diffraction and characterization by 51V MAS NMR spectroscopy. Dalton Transactions RSC, 2001, , 3214-3218.	2.3	24
26	Atomic Level Understanding of Orthophosphate Adsorption by Magnesium Aluminum-Layered Double Hydroxidesâ€"A Multitechnique Study. Journal of Physical Chemistry C, 2019, 123, 24039-24050.	3.1	24
27	Insight into the Local Magnetic Environments and Deuteron Mobility in Jarosite (AFe$_3$(SO$_4$)$_2$(OD,OD$_2$)$_6$, A = K, Na,) Tj ETQq1 1 0.784314 rgBT /Ov ((D$_3$O)Al$_3$(SO$_4$)$_2$(OD)$_6$), from Variable-Temperature ^{2}H MAS NMR Spectroscopy. Chemistry of Materials, 2011, 23, 3176-3187.	6.7	23
28	Preparation of Nafion 117â„¢-SnO2 composite membranes using an ion-exchange method. Solid State Ionics, 2012, 213, 76-82.	2.7	23
29	Sequestration of orthophosphate by Ca2Al-NO3 layered double hydroxide â€" Insight into reactivity and mechanism. Applied Clay Science, 2019, 176, 49-57.	5.2	23
30	Quantitative determination of vivianite in sewage sludge by a phosphate extraction protocol validated by PXRD, SEM-EDS, and 31P NMR spectroscopy towards efficient vivianite recovery. Water Research, 2021, 202, 117411.	11.3	23
31	Structural Investigation of Zn(II) Insertion in Bayerite, an Aluminum Hydroxide. Inorganic Chemistry, 2016, 55, 9306-9315.	4.0	22
32	ÃŽ²-VO2â€"a V(IV) or a mixed-valence V(III)â€"V(V) oxideâ€"studied by 51V MAS NMR spectroscopy. Chemical Physics Letters, 2002, 356, 73-78.	2.6	17
33	A solid state NMR study of layered double hydroxides intercalated with para-amino salicylate, a tuberculosis drug. Solid State Nuclear Magnetic Resonance, 2016, 78, 9-15.	2.3	17
34	Compaction of LiBH4-LiAlH4 nanoconfined in activated carbon nanofibers: Dehydrogenation kinetics, reversibility, and mechanical stability during cycling. International Journal of Hydrogen Energy, 2017, 42, 1036-1047.	7.1	17
35	Assignment of solid-state 13 C and 1 H NMR spectra of paramagnetic Ni(II) acetylacetonate complexes aided by first-principles computations. Solid State Nuclear Magnetic Resonance, 2017, 87, 29-37.	2.3	17
36	Local environment and composition of magnesium gallium layered double hydroxides determined from solid-state 1H and 71Ga NMR spectroscopy. Journal of Solid State Chemistry, 2014, 219, 242-246.	2.9	16

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37	Calcium Affects Polyphosphate and Lipid Accumulation in Mucoromycota Fungi. Journal of Fungi (Basel, Switzerland), 2021, 7, 300.	3.5	16
38	59Co Chemical Shift Anisotropy and Quadrupole Coupling for K3Co(CN)6 from MQMAS and MAS NMR Spectroscopy. Solid State Nuclear Magnetic Resonance, 2001, 20, 23-34.	2.3	15
39	Reactivity of magnesium borohydride â€" Metal hydride composites, Î³-Mg(BH4)2-MHx, MÂ= Li, Na, Mg, Ca. Journal of Alloys and Compounds, 2019, 770, 1155-1163.	5.5	15
40	Synthesis and Structural Characterization of a Pure $ZnAl_4(OH)_{12}(SO_4)Â·2.6H_2O$ Layered Double Hydroxide. Inorganic Chemistry, 2019, 58, 6114-6122.	4.0	15
41	Orientation effect of zinc vanadate cathode on zinc ion storage performance. Electrochimica Acta, 2021, 388, 138646.	5.2	15
42	Quantification of Biologically and Chemically Bound Phosphorus in Activated Sludge from Full-Scale Plants with Biological P-Removal. Environmental Science & Technology, 2022, 56, 5132-5140.	10.0	15
43	Variation in Phosphorus Speciation of Sewage Sludge throughout Three Wastewater Treatment Plants: Determined by Sequential Extraction Combined with Microscopy, NMR Spectroscopy, and Powder X-ray Diffraction. Environmental Science & Technology, 2022, 56, 8975-8983.	10.0	15
44	Solid State ^{13}C and ^{2}H NMR Investigations of Paramagnetic $[Ni(II)(acac)_2L_2]$ Complexes. Inorganic Chemistry, 2014, 53, 399-408.	4.0	14
45	Solid state 31P MAS NMR spectroscopy and conductivity measurements on NbOPO4 and H3PO4 composite materials. Journal of Solid State Chemistry, 2014, 219, 80-86.	2.9	14
46	The effect of preparation method on the proton conductivity of indium doped tin pyrophosphates. Solid State Ionics, 2015, 278, 209-216.	2.7	13
47	Synthesis and Characterization of Zeolite Naâ€"Y and Its Conversion to the Solid Acid Zeolite Hâ€"Y. Journal of Chemical Education, 2017, 94, 781-785.	2.3	13
48	Importance of Axial Symmetry in Elucidating Lanthanideâ€"Transition Metal Interactions. Inorganic Chemistry, 2020, 59, 235-243.	4.0	13
49	Small 51V chemical shift anisotropy for LaVO4 from MQMAS and MAS NMR spectroscopy. Solid State Nuclear Magnetic Resonance, 2003, 23, 107-115.	2.3	12
50	Order in disorder: solution and solid-state studies of [MIII2MII5] wheels (M^{III} = Cr, Al;) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.3	12
51	Remarkable reversal of ^{13}C-NMR assignment in d^{1}, d^{2} compared to d^{8}, d^{9} acetylacetonate complexes: analysis and explanation based on solid-state MAS NMR and computations. Physical Chemistry Chemical Physics, 2020, 22, 8048-8059.	2.8	12
52	Solid-state 51V MAS NMR spectroscopy determines component concentration and crystal phase in co-crystallised mixtures of vanadium complexes. CrystEngComm, 2010, 12, 2826.	2.6	11
53	The distribution of reactive Ni^{2+} in 2D Mg$_{2−x}$Ni$_x$Al-LDH nanohybrid materials determined by solid state ^{27}Al MAS NMR spectroscopy. Physical Chemistry Chemical Physics, 2018, 20, 25335-25342.	2.8	11
54	Montmorillonite-surfactant hybrid particles for modulating intestinal P-glycoprotein-mediated transport. International Journal of Pharmaceutics, 2019, 571, 118696.	5.2	11

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55	Safety of gadolinium based contrast agents in magnetic resonance imaging-guided radiotherapy â€" An investigation of chelate stability using relaxometry. Physics and Imaging in Radiation Oncology, 2022, 21, 96-100.	2.9	11
56	High-resolution nuclear magnetic resonance spectroscopy of biological tissues using projected magic angle spinning. Magnetic Resonance in Medicine, 2005, 54, 253-257.	3.0	10
57	Synthesis and thermal stability of the sodalite Na6Zn2[Al6Si6O24](SO4)2 and its reaction with hydrogen. Microporous and Mesoporous Materials, 2012, 161, 91-97.	4.4	10
58	Thermodynamic properties of mansfieldite ($AlAsO_4$·$2H_2O$), angelellite ($Fe_4(AsO_4)_2O_3$) and kamarizaite ($Fe_3(AsO_4)_2(OH)_3$·$3H_2O$). Mineralogical Magazine, 2018, 82, 1333-1354.	1.4	8
59	The stoichiometry of synthetic alunite as a function of hydrothermal aging investigated by solid-state NMR spectroscopy, powder X-ray diffraction and infrared spectroscopy. Physics and Chemistry of Minerals, 2015, 42, 337-345.	0.8	7
60	Applications of solid-state NMR spectroscopy in environmental science. Solid State Nuclear Magnetic Resonance, 2020, 110, 101698.	2.3	7
61	Resolving multiple 27Al sites in AlVO4 by 27Al MAS NMR spectroscopy at 21.15 Tesla. Chemical Communications, 2001, , 2690-2691.	4.1	6
62	The role of aluminium as an additive element in the synthesis of porous 4H-silicon carbide. Journal of the European Ceramic Society, 2016, 36, 3267-3278.	5.7	6
63	In situ processing of fluorinated carbonâ€"Lithium fluoride nanocomposites. Materials and Design, 2018, 158, 106-112.	7.0	6
64	Solid state NMR studies of layered double hydroxides. Annual Reports on NMR Spectroscopy, 2021, 104, 75-140.	1.5	6
65	Synthesis and Thermal Degradation of $MAl_4(OH)_{12}SO_4$·$3H_2O$ with M = Co^{2+}, Ni^{2+}, Cu^{2+}, and Zn^{2+}. Inorganic Chemistry, 2021, 60, 16700-16712.	4.0	6
66	Thermodynamics and crystal chemistry of rhomboclase, (H_5O_2)Fe($SO_4)_2$·$2H_2O$, and the phase (H_3O)Fe($SO_4)_2$ and implications for acid mine drainage. American Mineralogist, 2017, 102, 643-654.	1.9	5
67	Identification of hydrogen species in alunite-type minerals by multi-nuclear solid-state NMR spectroscopy. Physics and Chemistry of Minerals, 2019, 46, 299-309.	0.8	5
68	Structural characterization and magnetic properties of chromium jarosite $KCr_3(OD)_6(SO_4)_2$. Physical Chemistry Chemical Physics, 2020, 22, 25001-25010.	2.8	3
69	Effect of Oxygen Defects on the Structural Evolution of $LiVPO_4F_{1-y}O_y$ Cathode Materials. ACS Applied Energy Materials, 2020, 3, 9750-9759.	5.1	2
70	Oral etoposide and zosuquidar bioavailability in rats: Effect of co-administration and in vitro-in vivo correlation of P-glycoprotein inhibition. International Journal of Pharmaceutics: X, 2021, 3, 100089.	1.6	2
71	Aluminum Orthovanadate (AlVO4): Synthesis and Characterization by27Al and51V MAS and MQMAS NMR Spectroscopy.. ChemInform, 2003, 34, no.	0.0	0